

Title (en)
Process for polymerizing acrylonitrile

Title (de)
Polymerisationsverfahren von Acrylonitril

Title (fr)
Procédé de polymérisation d'acrylonitrile

Publication
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Application
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US 84325997 A 19970414

Abstract (en)
This invention relates to a process for polymerising acrylonitrile, comprising: (A) forming a polymerisable mixture comprising acrylonitrile monomer, solvent and a metal catalyst; (B) contacting said mixture with an initiator, said initiator being selected from the group consisting of sulfonyl halides, halopropionitriles, substituted halopropionitriles in the form of monoadducts derived from sulfonyl halides and acrylonitrile, monoadducts derived from substituted sulfonyl halides and monomers other than acrylonitrile; or polymers containing end groups derived from sulfonyl halides, halopropionitriles, substituted halopropionitriles in the form of monoadducts derived from sulfonyl halides and acrylonitrile, or monoadducts derived from substituted sulfonyl halides and monomers other than acrylonitrile; and (C) polymerising said acrylonitrile monomer to form a polymer comprised of acrylonitrile. In one embodiment, the polymerisable mixture in step (A) further comprises at least one polymerisable comonomer other than acrylonitrile, and the polymer formed during step (C) is a copolymer or a multicomponent copolymer comprised of acrylonitrile and said at least one other polymerisable comonomer.

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